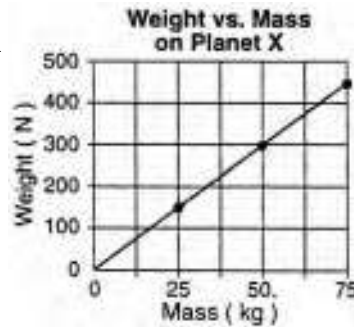


- 34 The graph at the right shows the weight of three objects on Planet X as a function of their mass. The acceleration due to gravity on Planet X is approximately [1] _____ m/s^2



- 35 A 15-kilogram mass weighs 60. newtons on Planet X. The mass is allowed to fall freely from rest near the surface of the planet. After falling for 6.0 seconds, the acceleration of the mass is [1] _____ m/s^2
- 36 The magnitude of the gravitational force of attraction between Earth and the Moon is [1] _____ N
- 37 What is the magnitude of the gravitational force between an electron and a proton separated by a distance of 1.0×10^{-10} meter?
v_____ N
- 38 On the surface of Planet X, the acceleration due to gravity is 16 meters per second². What is the weight of a 6.0-kilogram mass located on the surface of Planet X? [1] _____ N